Curriculum Vitae

Personal Information

Personal mormation Name Sex Address Phone Email Date of Birth Nationality Citizenship	Evgeny Cherkashin (Евгений Александрович Черкашин) Male Lermontov str. 281/3-51 Irkutsk, Russia, 664033 +7 (914) 870 67 54 eugeneai@irnok.net 19th August 1974 Country: USSR Russian Russian Federation
Work Experience Sep. 2018 - present	Assitant Professor, Chair of Information systems and Software protection, Irkutsk State Transport University (ISTU) Chernyshevsky str15, Irkutsk, 664074, Russia
Apr. 2014 - present	Senior Researcher at lab. "Complex Information Systems", Matrosov Institute of System Dynamics and Control Theory (ISDCT SB RAS), Lermontov str. 134, Irkutsk, Russia, 664033
Sep. 2009 - Apr. 2014	Head of Laboratory "Methods for Artificial Intelligence", ISDCT
Jun. 2000 - Sep. 2009 Sep. 1997 - Jun. 2000	SB RAS Senior Researcher, ISDCT SB RAS Programmer, ISDCT SB RAS
Sep. 2005 - present	Assitant Professor, Institute of Mathematics, Economics and Informatics, Irkutsk State University (ISU) Gagarina ave. 20, Irkutsk, Russia, 664003
Sep. 2005 - present	Assistant Professor, Institute of Informational Technologies and Data Analysis (former Institute of High Technologies, former Institute of Cybernetics) Irkutsk National Research Technical University (IrNITU) Lermontov str. 83, Irkutsk, Russia, 664074
Sep. 1996 - Sep. 2005	Senior Lecturer, IrNITU
Education and Training 1996 - 1999	PhD - Thesis title: «Programming Complex Quant/2 for Automatic Theorem Proving», ISDCT SB RAS
1991 - 1996	Master of Science in Computer Science and Electronics,
May-Jul., 2014	IrNITU, specialty: System Engineer. Advanced Training in «Lecturer of University» Institute of Continuing Education, ISU Nizhn'aya Naberezhnaya str. 4, Irkutsk, Russia, 664003
Personal Skills	

Personal Skills

Software Development	Assembler (Intel,	AVR, STM32,	ARM, PDP11)	, structural, object-
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Technologies	oriented, aspect-oriented, generative programming, logic, logic object-oriented, functional, model-driven, data-driven, component architectures, domain specific language, language wrapping, web-programming, etc.					
Programming	Algol-60, Fortran-77, Object JavaScript, Python, Prolog, L OcaML, Julia, Rust, D, etc.					
Methods	Computer algebra, numerical defined as systems of different identification (structural, para forecasting for natural pheno systems, first-order automation information systems (includin architecture on the base of low resource description framework decision support [information mathematical modeling encal interpretation as a compiled of component synthesis.	ntial equations, mathema metric), computer simula mena, information contro c theorem proving, intelli- ng geoinformation), mode ogic inference, linked ope ork, pattern-directed prog al] systems on the base psulation, domain specif	atical model ation and olled gent el-driven en data, gramming, of ic language			
Languages	Duccion					
Mother tongue	Russian Understanding	Speaking	Writing			

	Understanding		Speaking		Writing	
	Listening	Reading	Spoken interaction	Spoken production		
English	B1	C2	B1	B2	B1	
German	A2	A2	A2	A2	A2	
Serbian	A1	A2	A1	A1	A1	
	Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user Common European Framework of Reference for Language					
Communication skills	 team work: I prefer executive management in software development projects and other organizational activities (e.g., conference, education) and personal research and development. mediating skills: I work on the borders between young people, youth trainers and senior researchers & management, for example, I participate in organizing young scientific schools, students' and international conferences, local exhibitions, student projects, etc. 					
Organisational / managerial skills	 activities: I prefer executive management, I like to automate inferiors' work. there are two PhD defended under my scientific supervision: 1. A.K.Popova, «An Information Decision Support System for Forest Resources Rational Consumption», 2008, Institute of Computational Technologies SB RAS, Novosibirsk. 2. V.V.Paramonov, «Information System «Population Cancer Register»», 2011, Institute of Computational Technologies SB RAS, Novosibirsk. each year I supervise in average about fifteen bachelors and four magistery dissertations in ISU, IrNITU. 					
Computer Skills	New IT develop	oment				

1-th dan in Ki-Aikido (Sin-Sin-Toizu) Agricultural worker (fan) Vedic Psychology (fan) Backpacking and hiking (fan)

Driving license

В

Additional information Publications

1. E.A.Cherkashin, A.K.Cherkashin,

«An algebra for model scenario comparison», Procs. Of Int. Conf «INTERCARTO 2: GIS for environment investigation and cartography. Irkutsk, 1996, p. 199-200 (In Russian) 2. E.Cherkashin, S.Vassilyev,

«Intelligent Control of Moving Objects», In: Mini-Micro Systems, Numerical Simulation and its Software, Vol. 19, 1998, p. 4-24 (**WoS**)

3. E.Cherkashin, S.Vassilyev, A.Postoyenko, A.Zherlov «New Logics for Intelligent Control» In: Proc. of International Conference of Florida Artificial Intelligence Research Society, 1999, pp.257-261 **(WoS)**

4. E.Cherkashin, S.Vassilyev,

«Intelligent Control of Telescope», Siberian J. of Industrial Mathematics, Novosibirsk, IM SB RAS, N2, 1998, pp. 81-98 (In Russian) **(WoS)**

5. E.Cherkashin, I.Bychkov, A.Cherkashin, I.Vladimirov, «Prognosis Cartography on Base of Mathematical Modeling of Forest Resource Dynamics» The Proc. Of The 9th. Conference with International Participation Infosystems for Agriculture and Forestry. Praha. Czech Republic.

http://www.ccss.cz/sec/sec2003/anotace/c-cherkashyn.rtf. (**WoS**) 6. E.Cherkashin, V.Paramonov,

«An Intelligent Programming System for Information System Generation» Proc. of MIPRO 2005, XXVIII International Convention, May 30-June 03, 2005, Opatija, Croatia. P. 140-143. (WoS)

7. E.Cherkashin, I.Bychkov, A.Kitov,

«Computational Infrastructure for Parallel Processing Spatially Distributed Data», In Notes on Numerical Fluid Mechanics and Multidisciplinary Design. Computational Science and High Performance Computing II. E.Krause, Yu. Shokin, M.Resh, N.Shokina eds., Springer publ. Vol. 91, 2006. pp. 233-241 **(WoS)** 8. E.Cherkashin, A.Davydov, A.Larionov,

«On the Calculus of Positively Constructed Formulas for Automated Theorem Proving», Automatic Control and Computer Sciences (AC&CS). Vol. 45, No. 7, 2011, pp. 402-407. ISSN 0146-4116 **(WoS)**

9. E.Cherkashin, V.Paramonov, et al

«Model Driven Architecture is a Complex System», E-Society Journal, Research and Applications, 2011. –University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin, Serbia, V. 2, N. 2, November, 2011, pp. 15-23. ISSN 2217-3269.

10. E.Cherkashin, V.Paramonov, et al

«Information Modeling of Business Processes in X-ray

Fluorescent Analysis», MIPRO 2011. 34-th international convention on information and communication technology, electronics and microelectronics. Vol. III. May 23-27, 2011. Croatia, Opatija. //MIPRO: Croatia. – 2011., p.p. 334-337. **(WoS)** 11. E.Cherkashin, V.Paramonov, et al

«New Transformation Approach for Model Driven Architecture», Procs. of 35-th international convention on information and communication technology, electronics and microelectronics. May 23-27, 2011, MIPRO, Chroatia, 2012. – C. 1082-1087. (WoS)

12. E.Cherkashin, D.Annenkov

"Generation technique for Django MVC web framework using the stratego transformation language", Proc. of 36th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2013 - Proceedings, 2013, 1084-1087. **(WoS)**

13. E.Cherkashin, S.Badmatsyrenova, et al

"An optimal control module of sustainable natural resources consumption control synthesis for decision support systems", Proc. of 37th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2014 - Proceedings, 2014, pp. 1100-1105. **(WoS)** 14. Paramonov, V., Shigarov, A., Ruzhnikov, G., Cherkashin, E. Phonetic string matching for languages with cyrillic alphabet, Advances in Intelligent Systems and Computing, 852, Springer Verlag, 2019, pp. 301-311. DOI: 10.1007/978-3-319-99981-4_28 **(WoS)**

 Cherkashin, E., Kazi, L., Shigarov, A., Paramonov, V.
 "A computational independent model for a medical quality management information system", CEUR Workshop Proceedings, 2221, CEUR-WS, 2018, pp. 83-89. (WoS)
 Cherkashin, E., Kopaygorodsky, A., Kazi, L., Shigarov, A., Paramonov, V.

"Model Driven Architecture Implementation Using Linked Data", Communications in Computer and Information Science, 920, 2018, Springer Verlag, pp. 412-423. DOI: 10.1007/978-3-319-99972-2_34 **(WoS)**

17. Shigarov, A., Altaev, A., Mikhailov, A., Paramonov, V., Cherkashin, E.

"TabbyPDF: Web-Based System for PDF Table Extraction", Communications in Computer and Information Science, 920, Springer Verlag, 2018, pp. 257-269. DOI: 10.1007/978-3-319-99972-2_20 (WoS)

18. Cherkashin E., Shigarov A., Malkov F., Morozov A. "An Instrumental Environment for Metagenomic Analysis". In: Bychkov I., Voronin V. (eds) Information Technologies in the Research of Biodiversity. Springer Proceedings in Earth and Environmental Sciences. Springer, Cham, 2019, pp 151-158. DOI:10.1007/978-3-030-11720-7_20 (WoS)

19. Popova A.K., Cherkasin E.A., Vladimirov I.N. "Forest Resources of the Baikal Region: Vegetation Dynamics Under Anthropogenic Use". In: Bychkov I., Voronin V. (eds) Information Technologies in the Research of Biodiversity. Springer Proceedings in Earth and Environmental Sciences. Springer, Cham, 2019, pp. 96-106 (WoS)

20. Cherkashin E., Shigarov A., Paramonov V., Mikhailov A. "Digital Archives Supporting Document Content Inference", Proc. 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics (MIPRO). 2019. pp. 1037-1042. (**WoS**)

21. Paramonov V., Shigarov A., Ruzhnikov G., Cherkashin E. "Phonetic String Matching for Languages with Cyrillic Alphabet", Advances in Intelligent Systems and Computing: Proc. of 39th Intern. Conf. on Information Systems Architecture and Technology (ISAT 2018). 2019. Vol. 852. pp. 301-311. DOI: 10.1007/978-3-319-99981-4 28. URL:

https://link.springer.com/chapter/10.1007/978-3-319-99981-4_28. (**WoS**)

22. Shigarov A., Cherepanov I., Cherkashin E., Dorodnykh N., Khristyuk V., Mikhailov A., Paramonov V., Rozhkow E., Yurin A. "Towards End-to-End Transformation of Arbitrary Tables from Untagged Portable Documents (PDF) to Linked Data", 2019. Vol. 2463 (**Scopus**)

23. Cherkashin, E., Shigarov, O., Paramnov, V., Representation of MDA Transformation with Logical Objects, Procs. of 2019 International Multi-Conference on Engineering, Computer and Information Sciences (SIBIRCON), Novosibirsk, Russia, 2019, pp. 0913-0918, DOI: 10.1109/SIBIRCON48586.2019.8958008. (WoS) 24. Cherkashin, E., Shigarov, O., Khristyuk, V. Information Infrastructure for Supporting Baikal Microbiome Research, Procs of VII International workshop "Critical Infrastructures in Didital World", 10-15 Mart 2020, Irkutsk, Russia, 2020 (to appear) (WoS)

Major project participation

Russian foundation for basic research

99-05-64075-a, system of geographical knowledge as a basis of ecologo-geoghraphical expertise, 1999-2001, **performer**

01-07-90411-v, Development of Intelligent Corporative GIS "Angara", 2001-2003, **performer**

02-05-65054-a, The geosystems theory: basic concepts and laws, 2002-2004, **performer**

04-07-90227-v, Intelligent software for analytical investigations in X-ray fluorescence analysis, 2004-2006, **supervisor**

05-07-97201- r_Baikal_v, Intelligent Program System for Ecological Monitoring of Lake Baikal Region, 2005-2007, **performer**

05-07-97204-r_Baikal_v, Methods and software for support of distributed high-performance computational and information resources in research of lake Baikal, 2005-2007, **performer**

07-05-01061-a, Technogenic litosystems as a component of geological environment, 2007-2009, **performer**

08-07-00163-a, Technologies of intelligent data analysis and high-capacity information-computing resources for maintaining interdisciplinary research in geoecology and natural resource management, 2008-2010, **performer**

08-07-05021-b, The development of material and technical resources to carry out researches in the field of knowledge 07 with the purpose to organize a data storage system, 2008-2008, **performer**

08-07-98005-r_Siberia_a, Program technologies for logicmathematic modeling of Baikal region forest resources dynamics, 2008 - 2010, **supervisor**

09-07-05002-b, The development of material and technical resources to carry out researches in the field of knowledge 07 for better eficiency of interdisciplinary research by means of optimization and unification of data storage structure and control accumulating information resources by modernizing data storage system, 2009 -2009, **performer**

09-07-12017-ofi-m, Declarative specifications of information structures of files and databases; algorithms of their application to information exchange and integration of diverse interdisciplinary data,2009 -2010, **performer**

10-07-00051-a, Information technologies and software for a complex approach to the determination of the elemental material content by X-ray fluorescence, 2010 -2012, **supervisor**

14-07-00166-a, Technology for integration of distributed webservices and data within an interdisciplinary information and analysis environment, 2014-2016, **performer**

18-07-00758-a, Methods, technologies and instrumental tools of software creation for problem-oriented information systems based on constructive specifications, 2018-2020, **performer**